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29 JUL 1964

TOP SECRET 282149Z

1964 JUL 28 22 42Z

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CORONA

REF [ ] 1441 (IN 7887)

Grace (File)

1. A STUDY WAS MADE TO DETERMINE HOW THE USE OF A WRATTEN 25 FILTER AFFECTED THE PHOTOGRAPHY OF THE MASTER PANORAMIC CAMERA IN MISSION 1007-1. ORIGINAL NEGATIVES FROM THE MASTER PANORAMIC CAMERA WHICH EMPLOYED A WRATTEN 25 FILTER WERE COMPARED WITH ORIGINAL NEGATIVES FROM THE SLAVE PANORAMIC CAMERA WHICH UTILIZED A WRATTEN 21 FILTER. FRAMES CONTAINING THE SAME IMAGERY AND PROCESSING LEVEL WERE SELECTED FOR THIS STUDY. THE ACUITY OF THE SLAVE PHOTOGRAPHY IS BETTER THAN THAT OF THE MASTER PHOTOGRAPHY THROUGHOUT THE MISSION. THIS LOSS OF IMAGE SHARPNESS IS NOT ATTRIBUTED TO THE FILTER. THE DENSITY OF THE MASTER PANORAMIC MATERIAL IS GENERALLY LESS THAN THAT OF THE SLAVE MATERIAL. THIS RESULTS IN A SLIGHT LOSS OF DETAIL IN THE SHADOW AREAS OF THE MASTER PANORAMIC PHOTOGRAPHY. THE APPARENT CONTRAST IS HIGHER IN THAT MATERIAL EXPOSED THROUGH THE WRATTEN 25 FILTER. SINCE THE PROCESSING LEVEL WAS THE SAME ON THE EXAMPLES STUDIED, IT IS FELT THAT THE DIFFERENCE IN FILTERS CONTRIBUTES IN SOME DEGREE TO THE DENSITY AND CONTRAST DIFFERENCES. HOWEVER, SUCH A COMPARISON IS NOT CONCLUSIVE DUE TO THE DIFFERENCE IN RELATIVE SUN AZIMUTH BETWEEN THE MASTER AND SLAVE PHOTOGRAPHY. NO DIFFERENCE IN THE HAZE PENETRATING CAPABILITY OF THE FILTERS WAS PERCEIVED.

2. NO INCREASE IN IMAGE QUALITY DUE TO THE USE OF THE WRATTEN 25 FILTER IN PLACE OF THE WRATTEN 21 FILTER IS APPARENT.

TOP SECRET

--END OF MESSAGE--

25X1

Excluded from automatic  
downgrading and  
declassification